

Appliance - Split type air conditioner

| | | |
|--------------|-----------------|------------------|
| Outdoor unit | Single Inverter | RAS-35J2AVSG-ND1 |
| Indoor unit | Hi-wall - HAORI | RAS-35N4KVRG-ND |

Function

| | |
|-------------------|----------|
| Cooling | Y |
| Heating - Average | Y |
| Heating - Warmer | N |
| Heating - Colder | Y |
| Capacity control | Variable |

Design load

| | | | |
|-----------------|----------|-----|----|
| Cooling | Pdesignc | 3.5 | kW |
| Heating/Average | Pdesignh | 3.6 | kW |
| Heating/Colder | Pdesignh | 5.3 | kW |

Seasonal efficiency

| | | | |
|-----------------|---------|------|------|
| Cooling | SEER | 7.30 | A++ |
| Heating/Average | SCOP(A) | 5.10 | A+++ |
| Heating/Colder | SCOP(C) | 3.87 | A |

Cooling

| Capacity | | | Efficiency | | | |
|--|-----|---------|---|----------------------------------|-------|------|
| Declared capacity for cooling at indoor temperature 27(19)°C and outdoor temperature Tj. | | | Declared Energy efficiency ratio for cooling at indoor temperature 27(19)°C and outdoor temperature Tj. | | | |
| Tj=35°C | Pdc | 3.50 kW | Tj=35°C | EERd | 4.00 | |
| Tj=30°C | Pdc | 2.58 kW | Tj=30°C | EERd | 5.70 | |
| Tj=25°C | Pdc | 1.66 kW | Tj=25°C | EERd | 9.24 | |
| Tj=20°C | Pdc | 1.30 kW | Tj=20°C | EERd | 12.40 | |
| | | | | Degradation co-efficient cooling | Cdc | 0,25 |

Heating (Average climate)

| Capacity | | | Efficiency | | |
|--|-----|---------|--|------|------|
| Declared capacity for Heating/Average season, at indoor temperature 20°C and outdoor temperature Tj. | | | Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj. | | |
| Tj=-7°C | Pdh | 3.18 kW | Tj=-7°C | COPd | 3.00 |
| Tj=2°C | Pdh | 1.94 kW | Tj=2°C | COPd | 5.20 |
| Tj=7°C | Pdh | 1.25 kW | Tj=7°C | COPd | 6.80 |
| Tj=12°C | Pdh | 1.06 kW | Tj=12°C | COPd | 7.80 |
| Tj=bivalent temperature | Pdh | 3.60 kW | Tj=bivalent temperature | COPd | 2.60 |
| Tj=operation limit | Pdh | 2.70 kW | Tj=operation limit | COPd | 1.80 |
| Bivalent temperature | | -10 °C | | | |
| Operation limit temperature | | -25 °C | Degradation co-efficient heating | Cdh | 0,25 |

Heating (Colder climate)

Capacity

Declared capacity for Heating/Colder climate at indoor temperature 20°C and outdoor temperature Tj.

Efficiency

Declared coefficient of performance for Heating/Colder climate at indoor temperature 20°C and outdoor temperature Tj.

| | | | | | | |
|-----------------------------|-----|------|------|-------------------------|------|------|
| Tj=-7°C | Pdh | 3.18 | kW | Tj=-7°C | COPd | 3.00 |
| Tj=2°C | Pdh | 1.94 | kW | Tj=2°C | COPd | 5.20 |
| Tj=7°C | Pdh | 1.25 | kW | Tj=7°C | COPd | 6.80 |
| Tj=12°C | Pdh | 1.06 | kW | Tj=12°C | COPd | 7.80 |
| Tj=bivalent temperature | Pdh | 3.63 | kW | Tj=bivalent temperature | COPd | 2.20 |
| Tj=operation limit | Pdh | 2.70 | kW | Tj=operation limit | COPd | 1.80 |
| Tj=-15°C | Pdh | 4.32 | kW | Tj=-15°C | COPd | 2.20 |
| Bivalent temperature | | Tbiv | X °C | | | |
| Operation limit temperature | | Tol | X °C | | | |

Electricity

Electric power input in power modes other than "on mode"

Seasonal electricity consumption

| | | | | | | | |
|-----------------------|------|-------|----|-----------------|-------|------|-------|
| Off mode | Poff | 0.001 | kW | Cooling | QCE | 168 | kWh/a |
| Standby mode | Psb | 0.001 | kW | Heating/Average | QHE/A | 987 | kWh/a |
| Thermostat-off mode | Pto | 0.037 | kW | Heating/Warmer | QHE/B | x | kWh/a |
| Crankcase heater mode | Pck | 0.000 | kW | Heating/Colder | QHE/C | 2872 | kWh/a |

Refrigerant

| | | | | | | |
|--------------------------|-----|------|--|------|-----------------------|--|
| Type | | R-32 | | | | |
| Weight | | | | 0.76 | kg | |
| Global Warming Potential | GWP | | | 675 | kgCO ₂ eq. | |

Sound power level - db(A)

Rated air flow - m³/h

| | Cooling | Heating | | Cooling | Heating |
|------------------|---------|---------|------------------|---------|---------|
| RAS-35J2AVSG-ND1 | 61 | 62 | RAS-35J2AVSG-ND1 | | |
| RAS-35N4KVRG-ND | 56 | 59 | RAS-35N4KVRG-ND | | |

Dimensions

| | Height | Width | Depth | Weight |
|------------------|--------|-------|-------|--------|
| RAS-35J2AVSG-ND1 | mm | mm | mm | kg |
| RAS-35N4KVRG-ND | mm | mm | mm | kg |

Harmonised standard EN14511:2007, EN12102

Calculation methods - Measurement standards PrEN 14825: 2011 chapter 8 and 9

Contact details for obtaining more information

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